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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/577,387	04/26/2006	Kenji Watari	7412/88137	4696
42798 7550 6629/2010 FITCH, EVEN, TABIN & FLANNERY P. O. BOX 18415			EXAMINER	
			MELLON, DAVID C	
WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER
			1797	
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			06/29/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/577,387 WATARI ET AL. Office Action Summary Examiner Art Unit DAVID C. MELLON 1797 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 03 June 2010. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 20-28 is/are pending in the application. 4a) Of the above claim(s) 27 and 28 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 20 and 21 is/are rejected. 7) Claim(s) 22-26 is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO/S5/08)

Paper No(s)/Mail Date 20100406; 20100407

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

Art Unit: 1797

DETAILED ACTION

Election/Restrictions

 Newly submitted claims 27-28 are directed to an invention that is independent or distinct from the invention originally claimed for the following reasons: Claims 27 and 28 are drawn to inventions originally non-elected and corresponding to Groups II and III as set forth in the restriction requirement originally mailed 2/9/2009

Since applicant has received an action on the merits for the originally presented invention, this invention has been constructively elected by original presentation for prosecution on the merits. Accordingly, claims 27-28 are withdrawn from consideration as being directed to a non-elected invention. See 37 CFR 1.142(b) and MPEP § 821.03.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148
 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - Resolving the level of ordinary skill in the pertinent art.
 - Considering objective evidence present in the application indicating obviousness or nonobviousness.

Art Unit: 1797

4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

 Claims 20-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hidenori et al. (JP 2001-205054) see English language machine translation submitted by Applicant.

Regarding claims 20-21, Hidenori et al. discloses in figures 1-3, a hollow fiber membrane module (Abstract) comprising:

- A sheet form hollow fiber membrane (5, see also [0006])
- An anchoring member (7) wherein:
 - An end of a side of a hollow fiber membrane opening of the sheet form hollow fiber membrane is fastened by the anchoring member (7) so that the sheets are substantially parallel leaving the end open (see figures 1-3, note in figure 3 element 3)
 - A first side and an opposing second side of the anchoring member (in figure 3 see for instance top of 7 and round pipe 6 attached to bottom side of 7)

Art Unit: 1797

Wherein the first side is substantially rectangular (7)

- Wherein the second side is substantially circular with the membrane ends opening into it (6 - see in figure 3 membrane ends open into circular pipe region 6)
- Hidenori et al. further discloses the parallelpiped structural feature (see figures 2 and 3).

While Hidenori et al. does not explicitly disclose the relationship between the diameter of the cylindrical section and the length of the cylindrical section, it would have been obvious to one having ordinary skill in the art at the time of the invention to have optimized the length to diameter ratio to achieve the claimed lengths, diameters, and ratios since the disclosed structure of Hidenori sets forth a ratio exists. It would have been obvious to have done to configure the apparatus for end installation and use and to maximize fluid dynamics to achieve the best separation possible. Additionally, applicant has not established any criticality of the claimed lengths, diameters, and ratios. Furthermore, it has been held that where the general conditions of a claim are disclosed in the prior art (e.g. the readily apparent proportionality in figure 2), discovering the optimum or workable ranges involves only routine skill in the art. In re-Aller, 105 USPQ 233. Additionally, absent some showing of secondary evidence, the relative dimensional ratios of the cylindrical section are not patentably distinct from the prior art teachings of Yamamori et al. because; [W]here the only difference between the prior art and the claims was a recitation of relative dimensions of the claimed device and a device having the claimed relative dimensions would not perform differently than the

Art Unit: 1797

prior art device, the claimed device was not patentably distinct from the prior art device,

Gardner v. TEC Systems Inc., 220 USPQ 777 (1984).

Allowable Subject Matter

6. Claims 22-26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

 Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAVID C. MELLON whose telephone number is Art Unit: 1797

(571)270-7074. The examiner can normally be reached on Monday through Thursday 9:00am-5:30om EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vickie Kim can be reached on (571) 272-0579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tony G Soohoo/ Primary Examiner, Art Unit 1797

/D. C. M./ Examiner, Art Unit 1797